

UNITED STATES NAVAL OBSERVATORY
CIRCULAR NO. 6

U. S. Naval Observatory, Washington 25, D. C.

December 19, 1949

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS
AUGUST - OCTOBER, 1948

By Lucy T. Day

All measurements and spot counts were made at the Naval Observatory from plates secured either in Washington, or at Mt. Wilson. Difference in longitude is measured from the central meridian, positive toward the west; latitude is positive toward the north. Areas are corrected for foreshortening and expressed in millionths of the sun's hemisphere. For each date at the bottom of the columns headed: Mt. Wilson group number, difference in longitude, latitude, area of spot or group, and spot count are included respectively: number of groups, assumed longitude of the central meridian, assumed latitude of the center of the disk, total area of spots and groups, and total spot count. The date is expressed in Universal Time. The observatory at which the plate was secured and its quality are indicated directly below this date. (NO stands for U. S. Naval Observatory, MW for Mt. Wilson Observatory; and the symbols VG, G, F and P mean very good, good, fair and poor respectively.) Spots not assigned a number at Mt. Wilson are indicated by an asterisk. Corresponding data were published in the Monthly Weather Review from February 1927 to December 1947. Since December 31, 1947 they are published monthly in this series of circulars.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Heliographic							Heliographic							
Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	
Aug.							Aug.							
1.607	9339	-85	+14	85	48	1		9338	-54	-13	58	97	1	
MW-VG	9338	-78	-12	78	776	1		9338	-51	-11	54	679	1	
	9336	-59	-12	62	61	1		9338	-46	-9	48	48	4	
	9336	-58	-9	61	6	1		9336	-32	-12	36	61	1	
	9335	-55	-34	66	73	10		9341	-27	-1	28	12	5	
	9335	-48	-31	61	12	2		9335	-27	-33	47	73	15	
	9334	-52	-5	54	73	1		9334	-25	-4	27	36	1	
	9334	-49	-5	51	48	12		9334	-19	-4	22	36	2	
	9334	-48	-5	51	61	1		9333	+2	-12	18	291	10	
	9333	-26	-10	31	194	40		9333	+4	-10	17	630	30	
	9333	-21	-8	26	242	2		9333	+8	-13	21	97	2	
	9333	-19	-12	25	12	1		9330	+26	-13	33	48	1	
	9329	-6	-18	26	73	13		9330	+32	-13	38	24	2	
	9329	0	-17	23	36	10		9330	+38	-12	42	24	7	
	9329	+2	-17	24	97	1		9329	+27	-17	35	61	1	
	9330	0	-11	17	73	6		9337	+51	-19	58	24	5	
	9330	+8	-10	18	12	1		9326	+49	+14	49	48	4	
	9326	+20	+14	22	24	9		9326	+53	+12	53	194	1	
	9326	+27	+14	28	194	1		9326	+58	+10	58	24	1	
	9326	+29	+12	29	48	1		9332	+63	+20	64	145	5	
	9332	+35	+19	36	121	27		9332	+70	+18	70	24	1	
	9332	+40	+18	42	97	18		(14)	(166)	(+6)		3,693	107	
	9331	+37	+10	37	12	1								
	9320	+63	+8	63	12	1		4.683	9343	-73	+12	73	48	1
	9317	+78	+12	78	388	1		MW-F	9342	-63	-18	67	436	5
	9317	+81	+11	81	194	1			9342	-57	-13	60	48	3
	9325	+80	+17	80	12	2			9342	-53	-16	58	533	2
	(14)	(192)	(+6)		2,999	166			9339	-51	+15	52	48	3
2.658	9342	-81	-15	81	242	1			9339	-44	+14	45	61	1
NO-G	9339	-79	+17	79	48	1			9338	-39	-12	43	679	4
	9339	-72	+17	72	97	1			9338	-39	-14	44	12	1
	9338	-69	-12	71	73	2			9338	-30	-10	34	48	10
	9338	-65	-10	68	679	1			9336	-18	-12	25	48	1
	(*)	-55	+13	55	12	2			9335	-10	-32	40	145	10
	9336	-45	-12	49	48	1			9334	-7	-5	13	73	8
	9335	-42	-36	58	73	2			9333	+15	-10	22	291	16
	9335	-36	-34	55	73	9			9333	+20	-8	24	630	1
	9341	-39	-2	40	12	4			9333	+20	-14	28	48	1
	9334	-35	-4	37	121	4			9330	+30	-12	35	12	1
	9333	-11	-10	20	582	20			9330	+37	-12	42	61	4
	9333	-10	-12	21	145	9			9330	+53	-12	57	36	9
	9329	+12	-18	28	12	2			9329	+42	-17	49	61	1
	9329	+14	-17	27	73	1			9326	+62	+15	62	97	1
	9330	+22	-12	28	97	10			9326	+65	+13	65	97	1
	9326	+40	+11	40	242	1			9326	+68	+14	68	145	1
	9326	+44	+9	44	36	1			9326	+71	+11	71	12	1
	9332	+50	+17	51	170	18			9332	+77	+19	77	97	4
	9332	+55	+16	56	73	15		(12)	(152)	(+6)		3,766	90	
	(13)	(179)	(+6)		2,908	105		5.640	9343	-60	+11	60	97	1
3.642	9343	-88	+10	88	97	1		NO-G	9342	-51	-22	59	61	4
NO-VG	9342	-78	-18	80	242	2			9342	-49	-19	55	533	10
	9342	-71	-15	75	121	1			9342	-44	-16	50	73	9
	9342	-68	-17	71	436	1			9342	-40	-17	47	485	5
	9339	-65	+16	65	48	1			9342	-37	-13	42	6	2
	9339	-59	+15	59	73	1			9339	-38	+15	39	73	3
									9339	-31	+14	32	48	1

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

3

Date U. T. Aug.	Heliographic					
	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
	9338	-27	-13	33	48	2
	9338	-26	-12	32	630	12
	9344	-16	-9	22	12	2
	9336	-6	-12	19	48	3
	9335	+2	-33	40	48	5
	9335	+5	-32	39	48	4
	9334	+4	-5	12	6	1
	9334	+9	-5	14	12	1
	9333	+28	-10	32	436	45
	9333	+32	-9	35	533	1
	9333	+35	-15	41	48	1
	9329	+55	-17	60	48	2
	9330	+67	-10	69	97	2
	9326	+75	+15	75	194	1
	9326	+78	+13	78	97	1
	9326	+80	+14	80	97	1
	(12)	(139)	(+6)		3,778	119
6.641 NO-F	9346	-74	+8	74	145	2
	9343	-47	+11	47	48	1
	9342	-37	-22	47	73	4
	9342	-35	-19	43	582	13
	9342	-31	-17	40	48	5
	9342	-27	-17	35	436	6
	9342	-23	-15	31	24	3
	9339	-25	+14	26	194	13
	9339	-21	+12	22	24	3
	9339	-17	+12	18	73	1
	9338	-12	-12	22	582	10
	9345	-6	-23	30	12	3
	9344	-3	-9	15	12	2
	9336	+8	-13	21	48	1
	9335	+13	-33	42	24	5
	9335	+18	-32	43	48	4
	9333	+40	-10	43	242	12
	9333	+45	-8	47	679	8
	9333	+47	-13	51	48	2
	9329	+68	-17	71	48	1
	9326	+88	+14	88	145	1
	(12)	(126)	(+6)		3,535	100
7.647 NO-F	9346	-61	+8	61	218	3
	9343	-34	+11	34	48	2
	9342	-23	-20	34	291	6
	9342	-18	-17	29	170	4
	9342	-13	-16	26	533	15
	9339	-12	+14	15	218	13
	9339	-6	+13	9	12	1
	9339	-3	+13	8	73	4
	9347	+2	+12	6	48	4
	9338	+2	-12	17	533	6
	9344	+7	-9	16	24	5
	9336	+22	-12	29	24	1
	9335	+27	-33	48	12	4
	9333	+53	-10	56	170	5
	9333	+60	-8	60	679	6
	9333	+61	-13	64	48	3
	(10)	(113)	(+6)		3,101	82

Date U. T. Aug.	Heliographic					
	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
8.635 NO-G	9346	-49	+8	49	194	2
	9342	-9	-21	29	242	10
	9342	-5	-17	25	97	6
	9342	0	-15	21	73	6
	9342	0	-17	23	485	8
	9339	+3	+14	8	48	7
	9339	+10	+13	12	36	1
	9347	+15	+12	15	73	8
	9338	+15	-12	23	436	7
	9335	+41	-31	55	12	1
	9333	+66	-11	68	73	3
	9333	+66	-8	67	6	1
	9333	+73	-9	75	485	1
	(7)	(100)	(+6)		2,260	61
9.640 NO-G	9348	-87	-15	88	97	1
	9346	-35	+8	35	194	2
	9342	+4	-20	27	170	10
	9342	+8	-17	25	73	6
	9342	+13	-17	27	461	8
	9339	+16	+14	18	24	7
	9339	+24	+13	25	24	1
	9347	+28	+12	29	48	8
	9338	+28	-12	33	291	6
	9338	+27	-15	33	12	4
	9335	+53	-31	65	12	2
	9333	+80	-12	80	48	1
	9333	+86	-10	86	388	1
	(8)	(86)	(+6)		1,842	57
10.639 NO-G	9348	-72	-15	76	194	1
	9352	-58	-21	64	24	4
	9346	-22	+8	22	194	2
	(*)	-8	+17	14	6	1
	9350	-6	+5	6	6	3
	9342	+18	-20	31	109	7
	9342	+23	-17	33	194	15
	9342	+27	-17	36	242	1
	9339	+30	+14	31	24	6
	9339	+37	+14	38	12	1
	9347	+41	+12	41	24	4
	9338	+41	-12	45	291	5
	(9)	(73)	(+6)		1,320	50
11.638 NO-G	9353	-68	-17	71	48	1
	9348	-57	-16	61	194	2
	9348	-57	-13	60	6	1
	9352	-47	-21	55	24	4
	9346	-8	+10	9	24	8
	9346	-8	+8	8	145	1
	9351	-12	+17	16	6	3
	9349	+21	+12	22	12	4
	9342	+31	-21	41	109	8
	9342	+37	-17	44	73	7
	9342	+38	-18	45	291	2
	9342	+42	-14	46	24	9
	9339	+50	+14	50	12	1
	9339	+51	+10	51	12	3

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Heliographic						
Date U. T. Aug.	Mount Wilson group No.	Dif- ference in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
	9338	+54	-12	57	242	1
	9338	+57	-11	60	24	2
	(9)	(60)	(+6)		1,246	57
12.692 NO-G	9356	-82	-4	83	145	1
	9355	-80	+15	80	194	1
	9353	-62	-16	66	6	3
	9353	-59	-15	62	36	1
	9348	-46	-16	51	12	4
	9348	-43	-14	47	194	2
	9352	-32	-20	41	24	3
	9346	+6	+8	6	121	1
	9354	+34	-14	40	48	6
	9342	+42	-22	50	73	1
	9342	+51	-19	56	485	19
	9339	+62	+8	62	12	2
	9339	+62	+13	62	12	1
	9338	+70	-13	72	194	5
	(10)	(46)	(+7)		1,556	50
13.636 NO-G	9355	-75	+16	75	194	7
	9355	-67	+15	67	194	1
	9356	-69	-4	70	145	1
	9356	-67	-5	68	61	7
	9357	-65	-25	70	6	1
	9353	-47	-14	51	12	4
	9353	-43	-15	47	24	1
	9348	-33	-14	43	12	9
	9348	-30	-14	37	194	1
	9352	-18	-19	32	73	15
	9346	+19	+8	19	145	1
	9354	+48	-14	51	48	6
	9342	+55	-21	60	97	1
	9342	+65	-19	69	388	2
	9339	+75	+13	75	12	1
	9338	+82	-12	82	194	2
	(11)	(33)	(+7)		1,799	60
14.700 NO-F	9360	-88	+20	88	291	1
	9360	-84	+13	84	145	5
	9359	-79	-13	80	97	1
	9355	-60	+14	60	242	9
	9355	-52	+13	52	194	1
	9356	-55	-4	57	145	1
	9356	-55	-5	57	24	8
	(*)	-41	-15	46	6	1
	9353	-31	-14	36	24	2
	9358	-21	-25	36	12	3
	9348	-17	-14	27	170	1
	9352	-5	-19	27	145	12
	9352	0	-19	26	48	3
	9346	+33	+9	33	145	1
	9342	+69	-21	71	121	1
	9342	+79	-18	80	291	3
	9339	+85	+13	85	12	1
	(12)	(19)	(+7)		2,112	54

Heliographic						
Date U. T.	Mount Wilson group No.	Dif- ference in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Aug.						
15.681	9363	-82	-10	83	194	1
NO-G	9360	-74	+17	74	388	4
	9360	-70	+13	70	121	5
	9362	-73	+ 7	73	48	1
	9359	-69	-15	70	24	1
	9359	-63	-14	67	73	1
	9355	-47	+14	47	121	10
	9355	-46	+12	46	12	4
	9355	-39	+13	39	194	1
	9356	-41	- 5	43	12	12
	9356	-39	- 5	40	97	1
	9356	-35	- 6	37	16	1
	9353	-17	-15	27	24	10
	9358	-17	-25	33	12	4
	9348	- 4	-14	22	145	1
	9352	+ 9	-21	30	73	6
	9352	+17	-18	31	12	2
	9346	+46	+ 8	46	121	1
	9361	+50	- 6	52	48	10
	9342	+85	-20	86	291	3
	(13)	(6)	(+7)		2,026	79
16.644	9365	-81	+ 4	81	97	2
NO-F	9366	-80	+12	80	97	1
	9364	-71	-21	74	97	1
	9363	-67	-12	69	145	3
	9360	-67	+18	67	12	2
	9360	-61	+17	61	412	3
	9360	-56	+13	56	121	9
	9362	-60	+ 7	60	48	1
	9359	-55	-15	59	12	1
	9359	-50	-12	54	36	1
	9355	-35	+13	36	97	9
	9355	-27	+12	27	194	1
	9356	-28	- 5	32	109	8
	9356	-22	- 5	24	12	2
	9353	- 4	-15	23	12	4
	9358	+ 7	-25	33	97	10
	9348	+10	-14	23	145	1
	9352	+21	-20	33	48	3
	9352	+29	-18	38	48	5
	9346	+59	+ 9	59	145	1
	9361	+61	- 6	63	48	3
	9361	+66	- 4	67	61	1
	(15)	(354)	(+7)		2,093	72
17.639	9366	-76	+12	76	194	1
NO-G	9366	-66	+13	66	48	1
	9365	-73	+ 4	73	24	2
	9365	-67	+ 3	67	61	2
	9368	-73	-25	78	109	1
	9364	-58	-21	63	73	1
	9363	-54	-11	57	73	2
	9360	-49	+17	49	339	6
	9360	-42	+13	42	48	4
	9362	-47	+ 6	47	24	1
	9359	-37	-12	42	24	1

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

5

Date U.T. Aug.	Mount Wilson group No.	Heliographic		Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
		Dif- ference in longi- tude °	Lat- tude °			
	9355	-25	+13	26	6	1
	9355	-22	+14	23	12	1
	9355	-13	+12	15	194	1
	9356	-12	-5	17	291	20
	9353	+9	-14	24	12	1
	9353	+10	-14	24	12	5
	9358	+20	-25	37	24	4
	9348	+21	-15	30	24	2
	9348	+23	-13	31	97	1
	9352	+42	-17	48	36	6
	9346	+69	+8	69	12	2
	9346	+71	+9	71	145	1
	9361	+75	-8	76	48	1
	9361	+80	-4	80	73	1
	(16)	(340)	(+7)		2,003	69
18.637 NO-VG	9369	-88	+19	88	242	1
	9366	-62	+13	62	242	1
	9366	-57	+10	57	24	4
	9366	-53	+13	53	48	1
	9368	-60	-25	67	121	1
	9365	-59	+3	59	97	9
	9365	-53	+3	53	145	5
	9364	-44	-22	52	12	2
	9364	-43	-20	51	73	1
	9363	-41	-12	45	170	12
	9360	-38	+20	39	73	13
	9360	-35	+18	36	194	1
	9360	-28	+13	29	24	4
	9362	-33	+7	33	24	1
	9359	-23	-11	29	12	3
	9355	-9	+15	12	24	8
	9355	+1	+13	7	194	1
	9355	+1	+15	9	24	12
	9356	+1	-4	11	242	21
	9356	+6	-3	11	73	12
	9367	+4	-24	32	61	12
	9353	+22	-15	31	12	6
	9358	+28	-14	34	6	1
	9348	+36	-15	42	97	1
	9352	+55	-17	60	12	4
	9346	+85	+8	85	145	2
	(16)	(327)	(+7)		2,391	139
19.688 NO-F	9369	-72	+19	72	436	1
	9366	-48	+12	48	242	2
	9366	-44	+9	44	48	3
	9366	-37	+13	37	48	2
	9368	-45	-24	53	145	1
	9365	-44	+3	44	97	8
	9365	-39	+4	39	194	9
	9364	-30	-19	39	73	5
	9363	-27	-10	33	315	16
	9360	-22	+20	25	242	9
	9360	-19	+18	22	145	1
	9362	-19	+8	19	24	2
	9362	-14	+13	16	12	6

Date U.T. Aug.	Mount Wilson group No.	Heliographic		Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
		Dif- ference in longi- tude °	Lat- tude °			
	9355	+7	+14	11	24	4
	9355	+15	+13	17	218	5
	9356	+15	-4	19	242	11
	9356	+18	-5	23	145	3
	9367	+15	-26	36	48	2
	9367	+20	-23	36	73	6
	9348	+50	-14	54	97	1
	(12)	(313)	(+7)		2,868	97
20.642 NO-F	9369	-60	+19	60	388	1
	9366	-37	+11	37	6	3
	9366	-36	+12	36	218	1
	9366	-26	+12	27	48	3
	9368	-33	-23	43	121	3
	9365	-30	+3	31	145	6
	9365	-25	+5	26	170	3
	9364	-16	-20	31	48	4
	9363	-14	-10	22	194	13
	9360	-8	+19	15	242	11
	9362	-7	+7	7	12	1
	9359	-2	-12	19	12	2
	9370	+3	-3	10	12	1
	9355	+20	+13	21	6	1
	9355	+28	+13	29	218	5
	9355	+28	+11	28	6	2
	9356	+27	-5	30	218	6
	9356	+31	-5	33	97	2
	9367	+27	-27	43	61	5
	9367	+31	-24	44	12	3
	9348	+61	-15	65	61	1
	(14)	(301)	(+7)		2,295	77
21.639 NO-F	9371	-68	-20	70	97	2
	9369	-47	+19	48	339	1
	9366	-23	+12	24	218	1
	9366	-17	+11	18	24	10
	9366	-11	+11	13	24	3
	9368	-19	-22	32	97	1
	9365	-17	+3	19	97	14
	9365	-11	+5	12	170	4
	9364	-4	-20	28	24	1
	9363	-1	-11	18	242	5
	9360	+3	+19	12	73	3
	9360	+5	+19	13	73	5
	9360	+7	+16	13	97	2
	9362	+5	+7	5	12	1
	9355	+38	+14	38	48	6
	9355	+40	+13	40	242	3
	9355	+40	+10	40	6	1
	9355	+45	+10	45	12	1
	9356	+40	-6	43	218	10
	9356	+48	-7	50	48	3
	9367	+40	-25	50	36	3
	9348	+75	-15	78	61	1
	(13)	(288)	(+7)		2,258	81
22.810 NO-G	(*)	-55	+15	55	12	1
	9372	-53	-12	56	12	2

Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- itude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Aug.						
	9371	-53	-20	59	24	1
	9369	-33	+17	35	6	4
	9369	-31	+19	33	291	1
	9366	-9	+11	10	12	4
	9366	-8	+13	11	6	1
	9366	-8	+12	11	218	1
	9366	+3	+11	6	12	6
	9368	-4	-24	32	145	1
	9365	-2	+3	4	97	19
	9365	+5	+4	5	97	2
	9364	+12	-19	28	12	3
	9364	+13	-11	22	12	1
	9363	+15	-10	23	145	1
	9360	+20	+20	23	97	10
	9360	+22	+17	25	48	8
	9362	+20	+7	20	6	1
	9356	+56	-7	58	121	6
	9356	+64	-7	67	24	1
	9355	+56	+13	56	145	2
	(13)	(272)	(+7)		1,542	76
23.652 NO-G	9372	-41	-12	45	12	1
	9371	-40	-19	47	24	1
	9373	-40	+23	42	6	1
	9369	-19	+19	22	291	1
	9366	+3	+11	6	194	1
	9366	+4	+13	8	12	7
	9368	+8	-24	33	121	1
	9365	+10	+5	10	73	19
	9365	+19	+4	20	145	2
	9363	+27	-10	33	109	1
	9360	+31	+20	33	73	8
	9360	+33	+17	34	48	2
	9355	+68	+13	69	145	2
	(10)	(261)	(+7)		1,253	47
24.644 NO-G	9374	-78	-10	80	194	1
	9372	-27	-12	33	12	1
	9371	-26	-20	36	24	1
	9369	-7	+19	14	291	1
	9366	+17	+11	18	194	1
	9366	+20	+12	21	24	6
	9368	+21	-24	36	109	1
	9365	+24	+3	25	97	20
	9365	+33	+4	34	109	1
	9363	+40	-10	43	109	1
	9360	+45	+22	47	24	6
	9360	+46	+18	48	24	3
	9355	+82	+13	82	194	1
	(10)	(248)	(+7)		1,405	44
25.633 NO-G	9374	-65	-10	67	194	1
	9377	-36	-21	45	61	9
	9376	-27	-13	33	48	10
	9371	-20	-21	35	24	3
	9371	-13	-20	31	12	1
	9372	-13	-12	23	6	1

Heliographic						
Date U. T. Aug.	Mount Wilson group No.	Dif- ference in longi- tude °	Latitude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
	9373	-11	+23	20	97	11
	9375	-10	+10	11	48	8
	9369	+ 6	+19	14	291	1
	9366	+30	+11	30	194	1
	9366	+33	+12	33	24	8
	9368	+35	-24	45	97	1
	9365	+39	+ 4	39	24	12
	9365	+47	+ 5	47	97	1
	9363	+53	-10	56	97	2
	9360	+58	+20	58	12	6
	(13)	(235)	(+7)		1,326	76
26.650 NO-VG	9374	-53	-11	56	6	1
	9374	-51	-10	53	194	1
	9377	-23	-21	37	61	7
	9371	- 8	-21	30	170	1
	9371	- 4	-20	29	48	6
	9373	- 1	+22	15	121	8
	9373	+ 3	+22	15	121	5
	9375	+ 5	+ 9	5	24	1
	9369	+19	+19	22	291	1
	9366	+42	+11	42	194	1
	9368	+48	-24	55	73	1
	9365	+60	+ 5	60	73	1
	9363	+67	-10	68	48	2
	(10)	(221)	(+7)		1,424	36
27.639 NO-G	9374	-41	-12	45	6	1
	9374	-38	-10	42	194	1
	9377	- 8	-20	28	12	5
	9371	+ 7	-21	30	97	8
	9371	+11	-20	30	97	4
	9373	+13	+23	21	194	8
	9373	+18	+23	24	218	5
	9375	+19	+ 8	19	12	1
	9369	+32	+19	33	242	1
	9380	+37	-17	43	12	3
	9366	+56	+11	56	145	1
	9379	+60	- 9	62	61	5
	9368	+61	-24	68	97	1
	9378	+71	-12	73	48	3
	9365	+73	+ 5	73	97	1
	9363	+80	-11	80	24	1
	(13)	(208)	(+7)		1,556	49
28.684 NO-G	9383	-85	-14	85	242	2
	9374	-23	-10	27	194	2
	9381	-21	+18	24	6	1
	9377	+ 5	-21	28	6	2
	9382	+ 7	-16	24	48	10
	9371	+19	-21	34	194	11
	9371	+27	-21	39	218	5
	9373	+24	+23	29	97	10
	9373	+26	+23	30	97	7
	9375	+33	+ 8	33	12	3
	9369	+45	+18	46	48	7
	9369	+46	+19	47	291	2

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

7

Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- itude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Aug.						
	9380	+49	-16	53	6	1
	9366	+69	+12	69	194	4
	9379	+75	- 8	76	16	3
	9368	+75	-23	78	97	1
	(13)	(195)	(+7)		1,766	71
29.597 MW-G	9383	-78	-15	80	97	3
	9383	-73	-13	76	339	3
	9383	-68	-12	70	73	1
	9385	-68	+17	68	24	4
	9384	-44	-11	47	12	4
	9374	-12	- 8	19	24	3
	9374	-12	-10	21	170	1
	9382	+19	-18	31	48	8
	9382	+24	-18	34	61	3
	9371	+31	-21	41	194	9
	9371	+40	-21	48	194	3
	9373	+38	+22	40	145	26
	9373	+42	+21	43	121	3
	9369	+59	+19	59	291	3
	9366	+83	+13	83	145	2
	(9)	(182)	(+7)		1,938	76
30.601 MW-G	9386	-70	-19	73	48	2
	9383	-64	-15	67	97	8
	9383	-59	-14	62	339	3
	9383	-56	- 9	58	12	1
	9383	-55	-14	59	48	1
	9385	-52	+19	52	121	23
	9384	-30	-11	35	12	4
	9374	+ 3	-10	17	170	1
	9382	+32	-18	40	73	10
	9382	+38	-18	45	48	3
	9371	+44	-20	51	97	4
	9371	+54	-20	60	218	1
	9373	+52	+22	53	97	14
	9373	+56	+22	57	121	4
	9369	+72	+19	72	291	1
	(9)	(169)	(+7)		1,792	80
31.789 NO-G	9386	-58	-18	62	48	2
	9390	-57	- 7	59	24	2
	9383	-48	-15	52	194	13
	9383	-44	-14	48	291	7
	9383	-39	-14	44	48	1
	9385	-38	+18	39	145	17
	9385	-35	+19	36	194	10
	9384	-12	-11	22	12	8
	9374	+17	-12	26	145	1
	9389	+35	-26	48	24	6
	9382	+46	-18	52	24	2
	9382	+51	-19	56	48	1
	9371	+59	-20	63	48	1
	9371	+66	-20	70	194	13
	9373	+65	+23	66	73	3
	9373	+70	+23	70	194	2

Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- itude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Aug.						
	9387	+82	+12	82	48	3
	9369	+85	+18	85	242	1
	(12)	(154)	(+7)		1,996	93
Mean daily area for 31 days = 2,189						
Mean of 10 g+s for 31 days = 195.5						
Sept.						
1.658 NO-G	9390	-44	- 9	47	12	1
	9390	-41	- 8	43	48	1
	9386	-43	-19	50	48	1
	9386	-40	-17	46	61	4
	9383	-36	-15	42	109	19
	9383	-32	-14	38	339	6
	9383	-29	-12	35	12	1
	9383	-26	-15	34	61	1
	9385	-29	+17	31	48	10
	9385	-27	+18	30	291	7
	9385	-21	+18	23	242	2
	9374	+30	-10	34	194	1
	9382	+65	-18	68	97	1
	9371	+71	-21	75	145	2
	9371	+80	-20	82	194	1
	(*)	+73	-12	75	24	2
	9373	+85	+22	85	97	4
	(9)	(142)	(+7)		2,022	64
2.644 NO-F	9392	-74	+ 9	74	12	1
	9386	-31	-19	41	36	1
	9386	-27	-17	37	291	16
	9390	-28	- 7	32	48	4
	9383	-19	-14	28	388	15
	9383	-13	-13	25	61	3
	9385	-15	+17	18	242	7
	9385	-10	+18	15	48	5
	9385	- 8	+18	14	242	1
	9374	+42	-10	45	145	1
	9391	+57	+10	57	48	6
	9389	+60	-28	67	24	2
	9382	+78	-19	80	97	1
	(9)	(129)	(+7)		1,682	63
3.641 NO-F	9392	-61	+ 9	61	6	1
	9386	-19	-19	32	36	1
	9386	-15	-17	29	97	6
	9390	-14	- 7	21	24	1
	9383	-12	-15	25	145	10
	9383	- 6	-14	22	388	12
	9383	- 1	-14	23	36	2
	9385	- 2	+17	10	242	10
	9385	+ 2	+18	11	73	6
	9385	+ 4	+18	12	242	1
	9374	+55	-10	58	133	1
	9391	+70	+10	70	24	7
	(7)	(116)	(+7)		1,446	58

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Sept.						
4.710	9392	-48	+9	48	6	2
NO-F	9386	-5	-19	27	12	1
	9386	-2	-17	24	48	7
	9290	0	-7	14	12	1
	9383	+2	-14	21	73	4
	9383	+8	-14	23	388	7
	9383	+14	-15	26	24	1
	9385	+9	+18	14	291	11
	9385	+16	+18	20	73	6
	9385	+19	+18	22	194	1
	9393	+30	+15	31	145	6
	9393	+34	+12	34	121	5
	9374	+70	-10	71	121	1
	(7)	(102)	(+7)		1,508	53
5.783	9386	+13	-15	26	48	5
MW-F	9390	+14	-6	18	12	1
	9383	+22	-13	30	97	10
	9383	+25	-15	32	194	2
	9383	+29	-15	37	24	1
	9385	+23	+18	25	97	12
	9385	+29	+18	30	48	10
	9385	+31	+18	32	194	1
	9393	+44	+15	44	158	2
	9393	+47	+13	47	24	5
	9393	+50	+12	50	242	3
	(5)	(88)	(+7)		1,138	52
6.646	9386	+27	-15	35	24	5
NO-G	9383	+35	-14	40	218	13
	9383	+41	-15	46	24	1
	9385	+36	+18	37	145	11
	9385	+44	+18	45	194	7
	9393	+58	+14	58	194	13
	9393	+64	+12	64	315	3
	(4)	(76)	(+7)		1,114	53
7.651	(*)	+9	-17	27	12	2
NO-F	9383	+48	-14	52	194	7
	9383	+53	-15	57	24	1
	9385	+49	+18	49	73	3
	9385	+56	+17	56	218	2
	9393	+70	+15	70	145	2
	9393	+73	+12	73	97	6
	9393	+77	+14	77	291	4
	(4)	(63)	(+7)		1,054	27
8.633	9396	-83	+16	83	121	1
NO-G	9395	-78	-23	80	48	4
	9394	-66	-8	67	48	4
	9394	-62	-7	64	48	3
	(*)	+34	+6	34	12	1
	9383	+60	-15	63	218	8
	9383	+66	-16	68	12	1
	9385	+61	+18	61	12	3

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Sept.						
	9385	+70	+17	70	194	1
	9393	+87	+14	87	242	2
	(7)	(50)	(+7)		955	28
9.633	9398	-85	-18	85	242	1
NO-G	9396	-69	+15	70	121	2
	9395	-65	-24	70	48	9
	9394	-53	-7	55	48	3
	9394	-48	-6	50	48	3
	(*)	+8	+21	17	12	2
	9383	+78	-15	80	145	2
	9385	+85	+18	85	145	1
	(7)	(37)	(+7)		809	23
10.600	9401	-88	-4	88	24	2
MW-G	9398	-70	-18	73	145	2
	9400	-69	-29	75	73	4
	9396	-56	+15	56	97	7
	9395	-51	-24	58	48	15
	9394	-39	-7	42	6	1
	9394	-33	-6	35	12	1
	9397	+10	+9	10	48	14
	9399	+60	-12	62	24	4
	(8)	(24)	(+7)		477	50
11.675	9404	-80	-11	80	485	2
NO-P	9403	-76	-2	76	97	2
	9401	-72	-4	72	73	1
	9398	-56	-18	63	97	2
	9400	-55	-29	64	73	3
	9396	-42	+15	42	73	2
	9396	-39	+15	39	6	1
	9395	-38	-23	48	12	1
	9394	-23	-7	27	12	1
	9397	+22	+8	22	145	5
	9397	+25	+7	25	170	4
	(9)	(10)	(+7)		1,243	24
12.760	9404	-78	-10	79	388	2
NO-F	9404	-74	-10	75	291	4
	9404	-68	-11	70	679	1
	9403	-61	-2	62	97	2
	9403	-57	-5	58	73	3
	9401	-59	-9	61	12	1
	9400	-42	-27	53	121	12
	9398	-39	-18	46	73	3
	9396	-27	+16	28	73	4
	9396	-23	+15	24	6	2
	9395	-23	-23	37	24	4
	9394	-12	-9	20	12	1
	9402	-9	-17	26	12	1
	9397	+38	+8	38	97	3
	9397	+41	+7	41	242	2
	(10)	(355)	(+7)		2,200	45
13.660	9405	-88	+15	88	97	1
NO-G	9405	-74	+15	74	97	1

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

9

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- ference in longi- tude °	Lat- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Sept.						
	9406	-78	- 8	79	145	3
	9404	-63	- 9	65	436	8
	9404	-58	-10	61	727	1
	9403	-47	- 3	48	97	3
	9401	-47	- 7	49	73	2
	9400	-31	-27	46	24	6
	9400	-29	-27	44	145	1
	9398	-28	-18	38	170	7
	9396	-15	+16	18	61	2
	9395	- 9	-23	32	6	1
	9395	- 3	-22	30	12	2
	9394	+ 1	-10	17	12	1
	9397	+50	+ 8	50	48	3
	9397	+54	+ 7	54	194	2
	(11)	(344)	(+7)		2,344	44
14,639	9405	-71	+14	71	48	1
NO-G	9405	-60	+14	60	61	1
	9406	-71	- 9	72	48	1
	9406	-65	- 8	67	194	1
	9404	-50	- 9	53	242	2
	9404	-47	-10	50	121	11
	9404	-42	-11	46	776	1
	9403	-33	- 3	34	36	8
	9401	-33	- 7	36	24	6
	9407	-24	+15	25	12	4
	9400	-19	-27	39	97	10
	9400	-15	-27	38	194	6
	9398	-15	-17	29	73	1
	9398	-15	-18	29	73	15
	9396	- 2	+16	9	24	1
	9397	+61	+ 8	61	97	8
	9397	+68	+ 6	68	194	1
	(10)	(331)	(+7)		2,314	78
15,640	9406	-59	- 9	61	48	1
NO-F	9406	-52	- 8	54	194	1
	9405	-58	+14	58	61	1
	9405	-47	+15	47	73	1
	9404	-43	- 9	46	48	2
	9404	-37	- 9	40	291	5
	9404	-29	-11	33	679	2
	9403	-20	- 3	23	24	5
	9401	-19	- 7	23	97	3
	9407	- 9	+15	12	48	7
	9400	- 6	-27	35	97	6
	9400	- 2	-27	34	388	2
	9398	- 3	-17	24	61	3
	9398	+ 1	-18	25	48	1
	9396	+12	+16	15	24	1
	9410	+12	-23	32	24	1
	9409	+72	+15	72	24	1
	9397	+81	+ 7	81	145	3
	(12)	(317)	(+7)		2,374	46
16,642	9412	-80	+ 4	80	24	3
NO-G	9411	-80	- 7	81	194	2

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- ference in longi- tude °	Lat- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Sept.						
	9411	-80	-10	81	388	1
	9405	-45	+16	46	48	5
	9405	-35	+14	36	48	1
	9406	-42	-10	45	24	1
	9406	-39	- 8	42	12	1
	9406	-37	- 8	40	145	1
	(*)	-36	-25	48	6	3
	9408	-30	-10	34	73	10
	9404	-22	-10	28	436	25
	9404	-14	-11	24	679	1
	9403	-10	- 4	15	16	3
	9401	- 6	- 7	16	24	11
	9400	+ 7	-27	35	97	4
	9400	+11	-28	38	291	1
	9398	+11	-19	28	73	3
	9398	+17	-19	31	6	1
	9396	+25	+15	26	24	1
	9410	+26	-24	40	73	12
	(13)	(304)	(+7)		2,681	90
17,628	9411	-70	-10	71	12	1
NO-G	9411	-66	-10	68	339	1
	9411	-65	- 7	67	48	5
	9412	-66	+ 4	66	36	2
	9417	-60	+ 9	60	6	2
	9416	-50	+23	51	6	1
	9405	-31	+16	33	24	1
	9405	-19	+15	21	24	1
	9406	-29	-11	34	24	3
	9406	-25	- 9	29	12	1
	9406	-23	-10	28	109	1
	9408	-18	-12	26	145	4
	9408	-16	- 8	22	48	8
	9404	- 9	-10	19	436	21
	9404	- 4	-15	23	36	4
	9404	- 3	-11	19	630	1
	9414	- 3	+12	6	6	2
	9413	+ 6	+18	12	12	3
	9401	+ 8	- 8	17	48	7
	9398	+17	-17	30	36	5
	9398	+24	-20	37	24	1
	9400	+19	-28	40	24	5
	9400	+23	-30	43	242	7
	9400	+28	-27	43	12	1
	9396	+37	+13	37	12	1
	9410	+40	-27	52	12	3
	(15)	(291)	(+7)		2,363	92
18,631	9411	-56	- 9	58	12	8
NO-G	9411	-51	- 6	53	24	12
	9411	-52	-10	54	388	1
	9412	-52	+ 4	52	61	6
	9416	-37	+22	40	12	4
	9419	-33	+15	34	170	8
	9405	-17	+14	18	36	3
	9405	- 7	+14	11	12	1
	9406	-17	-10	25	6	2
	9406	-10	- 9	19	121	10

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Sept.						
	9408	-6	-11	19	194	6
	9408	-3	-9	17	48	2
	9404	+5	-11	18	582	19
	9404	+11	-11	21	679	1
	9401	+20	-8	25	48	6
	9418	+31	+15	32	61	8
	9400	+32	-25	45	24	3
	9400	+33	-28	48	97	10
	9400	+36	-28	49	145	4
	9398	+37	-18	43	12	2
	9410	+41	-26	52	12	1
	9410	+54	-24	61	12	3
	9396	+51	+14	51	6	1
	(14)	(278)	(+7)		2,762	121
19.585 MW-F	9423	-79	+13	79	24	1
	9411	-44	-9	46	24	1
	9411	-39	-10	43	339	1
	9412	-39	+3	39	97	11
	9419	-24	+15	25	36	9
	9419	-17	+15	20	194	3
	9422	-7	+17	12	24	2
	9405	-5	+13	8	12	1
	9405	+1	+13	6	194	2
	9406	+4	-9	17	194	9
	9408	+8	-11	20	242	3
	9408	+11	-9	19	97	12
	9421	+14	-7	20	36	7
	9404	+18	-11	26	339	13
	9404	+24	-11	30	873	2
	9420	+19	+23	24	12	3
	9418	+44	+16	45	24	5
	9418	+53	+17	53	12	1
	9400	+45	-27	55	48	8
	9400	+48	-27	57	145	2
	(13)	(265)	(+7)		2,966	96
20.653 NO-VG	9425	-80	-13	81	48	2
	9423	-66	+13	66	48	1
	9411	-31	-10	36	36	6
	9411	-24	-10	29	291	1
	9411	-23	-7	27	24	6
	9412	-27	+3	28	48	6
	9412	-23	+4	24	61	9
	9424	-17	+10	18	6	1
	9419	-10	+15	13	24	15
	9419	-3	+15	8	242	5
	(*)	-9	+3	10	24	6
	9405	+14	+13	15	218	15
	9405	+18	+11	19	48	1
	9406	+16	-10	23	24	9
	9406	+20	-9	25	194	8
	9408	+21	-12	27	267	1
	9408	+25	-10	30	73	15
	9421	+28	-6	32	48	10
	9404	+31	-11	36	97	12
	9404	+36	-13	41	970	6

Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Sept.						
	9404	+38	-14	42	6	1
	9420	+33	+21	35	48	10
	9400	+62	-28	68	145	5
	9418	+70	+15	70	12	1
	(15)	(251)	(+7)		3,002	152
21.590 MW-VG	9425	-66	-14	68	12	2
	9423	-54	+13	54	16	3
	(*)	-40	-30	53	6	1
	9428	-24	-12	31	36	18
	9411	-18	-10	25	73	20
	9411	-12	-10	22	291	1
	9411	-11	-11	21	24	11
	9412	-13	+3	13	61	11
	9412	-10	+3	12	121	20
	9424	-4	+11	6	24	12
	9419	+10	+15	13	194	19
	9422	+22	+15	23	73	15
	9405	+26	+14	27	194	5
	9405	+30	+13	31	97	19
	9426	+34	+8	34	12	1
	9406	+34	-8	38	145	1
	9408	+35	-14	40	291	4
	9408	+38	-10	42	145	30
	9421	+41	-6	43	24	6
	9404	+45	-12	48	145	7
	9404	+49	-11	51	824	4
	9420	+46	+24	48	24	5
	9400	+75	-27	80	145	3
	(17)	(239)	(+7)		2,977	218
22.698 NO-F	9431	-81	+12	81	48	1
	9425	-51	-12	54	48	1
	9423	-38	+13	38	36	1
	9430	-21	-11	28	24	2
	9428	-10	-14	23	24	4
	9411	-4	-10	18	145	13
	9411	+2	-10	17	291	1
	9412	+3	+3	4	121	8
	9412	+7	+3	8	145	4
	9424	+10	+9	10	97	9
	9429	+13	+23	21	24	3
	9419	+22	+14	23	194	7
	9422	+37	+14	37	291	10
	9405	+40	+13	40	194	2
	9405	+45	+11	45	73	2
	9427	+46	-25	54	24	1
	9406	+48	-8	50	145	1
	9408	+48	-15	52	242	4
	9408	+55	-11	58	145	6
	9404	+65	-13	68	776	8
	(16)	(224)	(+7)		3,087	88
23.634 NO-G	9431	-69	+12	69	291	1
	9431	-68	+13	68	6	1
	9425	-38	-13	42	24	1

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

11

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Sept.						
	9423	-25	+13	26	36	1
	9430	-8	-11	20	24	6
	9428	+3	-14	21	24	5
	9411	+9	-11	20	97	12
	9411	+13	-11	22	291	1
	9412	+14	+3	15	194	10
	9412	+20	+3	21	170	6
	9424	+21	+9	21	73	7
	9424	+21	+7	21	12	2
	9424	+25	+8	25	97	6
	9429	+26	+23	30	24	4
	9419	+35	+15	37	121	3
	9422	+47	+14	47	109	4
	9422	+51	+14	51	73	3
	9405	+52	+14	52	194	3
	9405	+57	+11	57	97	3
	9406	+61	-9	63	73	1
	9408	+62	-17	67	145	4
	9408	+69	-13	70	97	4
	9421	+67	-7	68	6	1
	9420	+72	+21	72	12	3
	9404	+79	-13	80	291	1
	(17)	(212)	(+7)		2,581	93
25.711 NO-F	9434	-63	-20	68	170	2
	9433	-57	-8	59	97	5
	9431	-40	+12	40	194	1
	9431	-37	+13	37	12	1
	9432	+3	-13	20	48	4
	9432	+7	-12	21	61	2
	9430	+19	-12	26	48	5
	9430	+23	-11	30	48	4
	9411	+37	-11	41	12	2
	9411	+40	-11	43	291	2
	9412	+42	+2	43	48	4
	9412	+49	+2	49	242	2
	9424	+50	+9	50	182	13
	9419	+64	+16	65	24	1
	9422	+80	+12	80	267	1
	(10)	(184)	(+7)		1,744	49
26.651 NO-G	9436	-59	-30	67	6	1
	9436	-54	-29	64	61	2
	9434	-51	-21	58	24	4
	9434	-50	-20	56	145	1
	9433	-44	-8	46	73	3
	9431	-28	+12	28	242	1
	9431	-24	+13	24	12	4
	9432	+17	-13	27	85	9
	9432	+20	-13	28	61	1
	9435	+21	-20	34	6	1
	9430	+34	-12	38	24	9
	9412	+54	+2	54	12	2
	9412	+62	+2	62	218	1
	9411	+55	-11	57	267	2

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Sept.						
	9424	+63	+9	63	339	10
	9419	+79	+14	79	12	1
	(11)	(172)	(+7)		1,587	52
27.638 NO-G	9438	-82	+8	82	73	1
	9436	-40	-30	52	61	1
	9434	-36	-20	45	194	1
	9434	-34	-21	44	12	2
	(*)	-35	+23	38	6	3
	9433	-30	-8	34	97	1
	9431	-15	+12	16	218	1
	9431	-12	+12	13	24	4
	9437	-9	-14	22	12	5
	9432	+30	-13	36	24	3
	9432	+34	-13	40	48	1
	9435	+40	-20	48	6	1
	9430	+45	-13	49	24	6
	9430	+50	-10	52	24	3
	9411	+68	-11	70	194	1
	9411	+69	-12	70	97	1
	9412	+75	+2	75	194	1
	9424	+78	+9	78	339	8
	(13)	(159)	(+7)		1,647	44
28.592 MW-VG	9438	-70	+8	70	73	1
	9436	-30	-30	47	24	7
	9436	-27	-30	45	48	1
	9434	-23	-20	35	145	1
	9434	-23	-22	37	16	8
	9433	-16	-8	22	48	1
	9431	-11	+11	12	6	3
	9431	-3	+12	7	194	1
	9431	+1	+13	6	61	15
	9437	+4	-14	22	36	11
	9437	+7	-13	22	24	4
	9432	+47	-13	51	61	8
	9435	+53	-19	59	16	3
	9430	+59	-12	61	24	5
	9430	+62	-10	63	12	4
	9428	+76	-13	78	48	3
	9411	+82	-10	83	145	1
	9411	+82	-12	83	48	2
	9424	+85	+8	85	48	2
	9424	+88	+10	88	48	1
	(12)	(146)	(+7)		1,125	82
29.633 NO-G	9438	-57	+8	57	36	1
	9439	-27	-16	36	12	1
	9436	-14	-31	41	61	1
	9434	-9	-21	30	194	1
	9433	-3	-8	17	24	1
	9431	+4	+11	5	36	4
	9431	+10	+10	11	194	1
	9431	+15	+12	16	121	14
	9437	+17	-14	26	61	6

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Heliographic							Heliographic							
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- i- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- i- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	
Sept.							Oct.							
	9437	+22	-14	30	61	5		9437	+57	-15	60	12	5	
	9432	+55	-14	59	6	1		9437	+62	-16	66	145	6	
	9432	+60	-14	63	12	1		9440	+84	+14	84	24	2	
	9435	+63	-18	68	12	1		(12)	(93)	(+7)		1,101	75	
	(9)	(133)	(+7)		830	38		(*)	-67	-12	69	12	2	
30.840	9438	-42	+ 8	42	48	2	3.621	9438	- 5	+ 9	5	12	5	
NO-F	9442	-10	+ 9	11	12	3	MW-G	9442	+27	+10	27	48	10	
	9442	- 5	+ 8	5	24	5		9442	+33	+ 9	33	145	20	
	9441	- 6	+13	8	24	5		9442	+37	+ 8	37	242	12	
	9441	- 4	+13	7	48	1		9441	+34	+13	34	36	1	
	9436	+ 1	-30	37	48	2		9445	+42	- 5	43	48	7	
	9434	+ 4	-19	27	145	1		9444	+43	+25	46	218	6	
	9431	+19	+10	19	61	6		9444	+49	+23	50	36	10	
	9431	+25	+12	26	12	1		9434	+44	-21	52	145	1	
	9431	+26	+10	26	194	1		9443	+48	+ 8	48	6	3	
	9431	+29	+12	29	24	6		9431	+62	+11	62	12	1	
	9437	+33	-15	39	73	3		9431	+65	+10	65	194	1	
	9437	+37	-15	42	194	1		9437	+76	-16	78	121	3	
	(7)	(117)	(+7)		907	37		(10)	(80)	(+7)		1,275	82	
	Mean daily area for 29 days = 1,825							4.650	9447	-80	- 9	80	242	1
	Mean 10 g+s for 29 days = 171.4							NO-G	9446	-25	+13	26	48	1
									9446	-24	+12	25	61	2
									(*)	-10	+30	25	12	3
									(*)	+11	+31	27	12	6
Oct.								9442	+43	+ 9	43	291	10	
1.660	9438	-30	+ 8	30	48	2		9442	+50	+ 8	50	145	7	
NO-G	9442	+ 2	+ 9	2	48	6		9441	+47	+13	47	12	1	
	9442	+ 7	+ 7	7	61	8		9444	+54	+24	55	145	1	
	9441	+ 5	+13	8	6	1		9444	+62	+22	62	170	2	
	9441	+ 8	+13	10	48	1		9445	+56	- 6	58	24	1	
	9436	+12	-31	40	24	2		9434	+58	-21	63	145	1	
	9444	+16	+26	25	12	2		9431	+78	+10	78	194	1	
	9434	+17	-21	33	145	1		(10)	(67)	(+7)		1,501	37	
	9443	+19	+20	22	16	3		5.608	9447	-67	-10	69	145	1
	9431	+36	+10	36	36	4		MW-G	9446	-11	+11	12	121	12
	9431	+38	+10	38	194	1			9442	+55	+ 9	55	242	11
	9437	+43	-15	47	61	6			9442	+63	+ 8	63	388	24
	9437	+49	-16	53	194	1			9444	+68	+25	68	194	1
	9440	+71	+13	71	24	1			9444	+71	+22	71	24	3
	(10)	(106)	(+7)		917	39			9444	+80	+23	80	145	1
2.642	(*)	-64	+17	64	6	1			9445	+70	- 6	72	12	1
NO-G	(*)	-52	- 8	54	6	2			9434	+71	-21	76	121	1
	9438	-18	+ 8	18	12	8			(6)	(54)	(+6)		1,392	55
	9438	-17	+ 8	17	12	1		6.667	9449	-88	+18	88	291	1
	9442	+13	+ 8	14	73	10		NO-F	9448	-71	+14	71	36	1
	9442	+20	+ 7	20	291	25			9447	-53	- 8	56	194	1
	9441	+20	+13	21	48	1			9446	+ 3	+11	6	73	3
	(*)	+24	- 5	26	6	3			9442	+70	+ 8	70	291	6
	9444	+30	+25	35	61	3			9442	+77	+ 6	77	339	5
	9444	+35	+23	38	48	4			9444	+80	+24	80	170	1
	9434	+30	-21	41	145	1			(6)	(40)	(+6)		1,394	18
	9443	+35	+18	37	6	1								
	9431	+49	+11	49	12	1								
	9431	+51	+10	51	194	1								

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

13

Heliographic							Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Oct.							Oct.						
7.612	9449	-75	+17	75	436	1		9456	-63	+14	63	727	10
MW-G	9449	-69	+15	69	12	1		9456	-62	+9	62	12	1
	9448	-58	+13	58	24	1		9456	-55	+14	55	12	1
	9447	-39	-9	42	206	1		9456	-49	+14	49	48	7
	9446	+18	+12	20	73	11		9453	-44	-6	46	24	4
	9442	+83	+8	83	194	1		9453	-39	-6	42	24	5
	9442	+85	+6	85	194	1		9453	-35	-5	36	194	2
	(5)	(27)	(+6)		1,139	17		9451	-33	-8	37	24	5
8.699	9451	-87	-9	88	194	1		9451	-32	-9	36	170	1
MW-G	9450	-87	-12	88	97	1		9450	-33	-13	38	145	7
	9449	-60	+17	60	388	2		9457	-18	+18	22	73	8
	9448	-45	+13	45	12	1		9449	-9	+18	15	291	11
	9447	-25	-9	29	145	2		9452	+9	-25	32	97	11
	9446	+32	+13	33	36	2		9452	+13	-24	33	194	2
	(6)	(13)	(+6)		872	9		9447	+28	-9	32	73	10
9.725	9453	-76	-5	78	194	1		(9)	(321)	(+6)		2,447	89
NO-P	9451	-71	-8	74	291	2	13.622	9465	-80	-9	80	48	1
	9450	-71	-11	75	145	1	NO-G	9462	-75	+23	75	388	4
	9449	-48	+18	50	315	5		9462	-66	+23	66	194	2
	9452	-33	-24	45	85	6		9463	-75	+6	75	97	1
	9452	-28	-23	42	97	4		9464	-75	-12	78	218	1
	9447	-12	-8	18	121	3		9461	-57	-26	65	24	6
	(6)	(0)	(+6)		1,248	22		9456	-49	+14	49	727	11
10.703	9456	-88	+15	88	194	1		9456	-41	+15	42	12	2
NO-F	9455	-80	+13	80	73	3		9460	-42	-11	46	6	1
	9453	-70	-6	72	97	1		9455	-34	+13	35	24	3
	9453	-66	-7	68	48	1		9453	-31	-6	33	12	1
	9453	-63	-5	65	218	1		9453	-25	-6	27	24	9
	9451	-59	-9	61	388	3		9453	-22	-5	24	218	1
	9450	-58	-12	60	194	2		9451	-19	-9	23	194	1
	9449	-35	+18	37	315	2		9450	-19	-13	27	145	4
	9454	-21	+20	26	36	4		9459	-7	-5	13	12	3
	9452	-18	-24	36	97	15		9457	-4	+18	12	48	5
	9452	-13	-23	32	145	3		9449	+4	+18	12	194	12
	9447	+2	-9	15	121	6		9452	+19	-26	36	61	1
	(9)	(347)	(+6)		1,926	42		9452	+23	-25	38	97	9
11.608	9456	-76	+14	76	679	3		9452	+28	-25	42	145	2
MW-G	9455	-66	+13	66	36	5		9447	+41	-9	43	145	7
	9453	-58	-6	60	73	6		9458	+45	+10	45	73	10
	9453	-54	-7	56	24	10		(17)	(308)	(+6)		3,106	97
	9453	-50	-5	52	194	5	14.646	9465	-67	-8	69	97	1
	9451	-46	-9	48	388	9	NO-G	9464	-62	-11	63	194	1
	9450	-45	-12	49	194	10		9463	-61	+5	61	61	1
	9457	-32	+18	34	36	8		9462	-60	+23	61	291	4
	9449	-22	+17	25	339	15		9462	-56	+23	58	61	3
	9454	-9	+19	15	16	4		9462	-52	+23	54	242	5
	9452	-6	-24	32	24	25		9461	-45	-26	55	24	6
	9452	+1	-23	30	194	1		9456	-36	+14	37	824	15
	9447	+16	-9	24	121	9		9455	-21	+13	23	24	7
	(10)	(335)	(+6)		2,318	110		9453	-10	-7	17	36	15
12.624	9462	-88	+23	88	194	1		9453	-9	-5	14	194	1
NO-F	9462	-78	+22	78	145	3		9451	-6	-9	17	145	2
								9450	-6	-13	20	97	7
								9459	+8	-5	14	97	15
								9457	+10	+18	16	24	10
								9449	+17	+17	20	73	5

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Heliographic							Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- itude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- itude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Oct.							Oct.						
	9452	+31	-26	45	36	5		9463	-6	+5	6	73	1
	9452	+37	-25	48	12	3		9456	+18	+14	20	776	19
	9452	+41	-24	51	109	2		9453	+39	-9	42	12	4
	9447	+55	-10	58	291	11		9453	+46	-5	48	218	1
	9458	+59	+10	59	97	12		9451	+47	-9	50	73	1
	(16)	(295)	(+6)		3,029	131		9459	+63	-4	64	73	5
								(9)	(242)	(+6)		1,758	57
15.634	9465	-54	-8	57	48	1	19.631	9472	-48	-21	55	12	1
NO-G	9464	-48	-12	52	145	1	NO-F	9471	-40	-31	54	48	2
	9463	-48	+6	48	61	1		9470	-6	-12	19	145	9
	9462	-48	+23	51	218	3		9470	-5	-10	17	12	1
	9462	-43	+24	45	24	8		9464	+4	-12	18	242	2
	9462	-39	+24	42	194	2		9469	+4	+10	5	61	3
	9456	-23	+14	25	921	11		9463	+6	+4	6	48	1
	9461	-37	-27	50	6	1		9462	+5	+23	18	121	6
	9461	-29	-26	43	12	3		9462	+16	+23	22	73	2
	9445	-8	+12	11	24	12		9467	+11	+15	14	24	4
	9453	0	-7	13	24	10		9456	+32	+13	33	727	10
	9453	+5	-5	12	194	1		9468	+40	+38	50	12	2
	9451	+7	-9	16	121	3		9453	+60	-6	61	242	1
	9450	+8	-13	21	97	10		9451	+60	-11	62	48	1
	9459	+22	-5	24	12	1		9459	+78	-3	79	24	1
	9452	+43	-27	55	12	3		(13)	(229)	(+6)		1,839	46
	9452	+54	-23	61	97	1							
	9447	+68	-10	70	242	10							
	9458	+71	+11	71	194	1							
	9458	+75	+10	75	97	3							
	(14)	(282)	(+6)		2,743	86							
16.621	9465	-40	-9	43	24	1	20.644	9475	-75	-33	79	12	1
NO-F	9464	-35	-12	40	194	1	NO-F	9474	-72	+11	72	12	1
	9462	-35	+23	38	194	1		9472	-36	-20	44	12	1
	9462	-35	+25	39	12	1		9471	-29	-30	44	48	1
	9462	-30	+24	34	97	6		9473	-4	+27	23	48	6
	9462	-25	+24	31	145	6		9470	+5	-12	17	73	3
	9463	-34	+5	34	48	1		9470	+9	-11	18	48	2
	9467	-28	+13	29	6	3		9464	+17	-12	24	218	5
	9456	-9	+14	12	776	12		9469	+17	+9	18	24	3
	9466	-6	+6	6	12	3		9463	+18	+4	18	24	1
	9455	+4	+13	8	24	5		9462	+19	+23	26	61	11
	9453	+15	-9	22	12	1		9462	+29	+23	34	73	1
	9453	+19	-5	22	194	1		9462	+25	+21	30	12	6
	9451	+20	-10	26	97	1		9467	+26	+13	27	12	2
	9450	+21	-13	28	36	12		9456	+45	+13	46	630	11
	9459	+37	-4	40	12	2		9466	+52	+6	52	24	1
	9452	+68	-23	72	97	1		9453	+73	-6	75	242	2
	9447	+81	-10	81	121	2		9451	+73	-10	75	48	3
	9458	+85	+10	85	194	1		(15)	(216)	(+5)		1,621	61
	(15)	(269)	(+6)		2,295	61							
18.634	9472	-61	-21	66	48	1	21.634	9480	-80	+7	30	582	1
NO-F	9470	-19	-11	26	61	7	NO-F	9479	-63	-13	65	16	1
	9464	-9	-12	20	218	2		9475	-62	-33	68	24	2
	9462	-7	+23	18	121	14		9474	-60	+11	60	12	1
	9462	-3	+25	20	24	1		9478	-43	+13	43	97	9
	9462	+3	+25	20	61	1		9477	-31	-3	32	24	4
								9472	-28	-21	38	24	1
								9472	-25	-20	35	12	1
								9471	-15	-30	38	48	1
								9473	+9	+27	24	12	3
								9470	+20	-11	25	97	10
								9464	+29	-11	33	242	8

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

15

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- ference in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Oct.						
	9469	+31	+ 9	31	36	2
	9463	+32	+ 4	32	36	2
	9462	+33	+24	37	24	6
	9462	+41	+22	43	48	1
	9467	+40	+15	41	73	4
	9456	+58	+13	59	630	7
	9466	+65	+ 6	65	145	6
	(17)	(202)	(+5)		2,182	70
22.608 MW-G	9480	-68	+ 7	68	727	1
	9479	-51	-13	54	12	1
	9475	-50	-33	59	24	7
	9474	-48	+11	48	12	1
	9478	-30	+13	31	73	20
	9481	-28	-12	32	6	3
	9477	-17	- 4	20	73	10
	9471	- 2	-30	35	16	3
	9476	+18	-12	25	6	1
	9473	+21	+27	29	24	3
	9470	+30	-12	34	12	7
	9464	+39	- 9	41	24	4
	9464	+42	-11	45	194	1
	9463	+45	+ 4	45	97	8
	9469	+45	+11	45	24	6
	9467	+55	+15	56	48	7
	9462	+46	+24	50	24	8
	9462	+54	+22	56	36	3
	9456	+70	+13	70	630	5
	9466	+76	+ 5	76	97	2
	9466	+82	+ 6	82	194	4
	(18)	(190)	(+5)		2,353	105
23.619 MW-G	9480	-54	+ 7	54	727	1
	9475	-34	-33	50	12	5
	9478	-19	+16	22	24	8
	9478	-13	+12	15	36	4
	9481	-13	-12	21	12	12
	9477	- 3	- 4	10	194	24
	9472	+ 1	-19	24	12	5
	9471	+10	-29	35	12	4
	9476	+30	-13	36	12	7
	9464	+55	-11	57	170	1
	9469	+59	+10	59	12	3
	9463	+60	+ 4	60	145	14
	9467	+68	+15	68	48	10
	9462	+68	+24	68	48	1
	9456	+85	+13	85	485	6
	(14)	(176)	(+5)		1,949	105
24.615 MW-G	9483	-52	-20	56	24	8
	9480	-42	+10	42	12	2
	9480	-40	+ 7	40	727	1
	9478	- 7	+13	11	6	1
	9478	- 1	+12	7	24	5
	9481	+ 1	-12	16	97	18
	9477	+ 9	- 7	15	97	23
	9477	+14	- 7	19	121	17

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- ference in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Oct.						
	9472	+14	-20	28	12	4
	9482	+15	-16	25	24	5
	9464	+62	-12	64	12	2
	9464	+68	-11	70	194	4
	9463	+73	+ 4	73	145	10
	9462	+73	+25	75	48	12
	9462	+80	+24	80	24	1
	9469	+78	+10	78	12	1
	9467	+80	+16	80	48	3
	9467	+85	+17	85	97	1
	(12)	(163)	(+5)		1,724	118
25.649 NO-F	9483	-37	-19	44	97	9
	9480	-27	+ 7	27	727	1
	9481	+11	-13	21	73	1
	9481	+14	-13	23	24	6
	9481	+17	-13	25	194	1
	9477	+24	- 7	27	97	15
	9477	+28	- 7	31	194	2
	9482	+29	-17	37	48	5
	(5)	(150)	(+5)		1,454	40
26.638 NO-G	9483	-23	-19	34	61	15
	9484	-22	+13	23	12	6
	9480	-16	+ 8	17	145	8
	9480	-13	+ 7	13	630	1
	9481	+24	-13	30	73	4
	9481	+30	-12	34	145	7
	9477	+35	- 6	37	121	1
	9477	+37	- 7	40	48	12
	9477	+41	- 8	43	291	1
	9482	+40	-18	46	73	4
	9482	+45	-17	50	145	4
	(6)	(136)	(+5)		1,744	63
27.631 NO-G	9485	-37	+ 7	37	36	7
	9483	- 9	-20	26	97	15
	9484	- 9	+12	12	36	5
	9480	- 7	+ 6	7	24	10
	9480	+ 1	+ 7	2	582	1
	9481	+39	-14	43	97	8
	9481	+44	-13	48	194	10
	9477	+48	- 6	50	97	4
	9477	+54	- 7	57	145	13
	9477	+59	- 8	60	242	1
	9482	+52	-18	56	48	7
	9482	+61	-17	64	194	1
	(7)	(123)	(+5)		1,792	82
28.641 NO-F	9485	-23	+ 7	23	121	4
	9480	+ 5	+ 6	5	12	1
	9480	+13	+ 7	13	24	5
	9480	+14	+ 7	14	509	1
	9483	+ 6	-20	25	48	6
	9481	+50	-13	53	48	1
	9481	+60	-13	63	170	1
	9477	+55	- 6	57	6	1

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Date U.T.	Mount Wilson group No.	Heliographic		Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
		Dif- fer- ence in longi- tude °	Lati- tude °			
Oct.						
	9477	+65	- 7	67	145	4
	9477	+72	- 7	73	242	1
	9482	+70	-18	73	48	1
	9482	+75	-18	78	242	2
	(6)	(110)	(+5)		1,615	28
29.670	9488	-71	+10	71	109	1
NO-G	9487	-35	+21	38	48	1
	9485	-11	+ 4	11	48	4
	9485	- 8	+ 6	8	73	4
	(*)	+15	+ 9	16	6	2
	9483	+20	-20	32	36	6
	9480	+25	+ 9	25	12	4
	9480	+28	+ 7	28	509	1
	9486	+28	-11	32	73	5
	9481	+73	-13	75	194	3
	9477	+70	- 6	71	12	1
	9477	+78	- 7	78	194	5
	9477	+82	- 7	82	97	1
	(9)	(96)	(+5)		1,411	38

Date U.T.	Mount Wilson group No.	Heliographic		Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
		Dif- fer- ence in longi- tude °	Lati- tude °			
Oct.						
30.659	9488	-58	+11	58	97	2
NO-F	9487	-22	+20	26	48	7
	9485	+ 2	+ 4	2	48	5
	9485	+ 6	+ 5	6	48	4
	9483	+38	-20	46	48	3
	9480	+41	+ 7	41	485	4
	9486	+42	-12	45	194	10
	(6)	(83)	(+5)		968	35
31.635	9488	-44	+12	44	85	2
MW-P	9487	- 9	+21	18	12	2
	9485	+21	+ 6	21	16	1
	9480	+56	+ 7	56	485	2
	9486	+56	-12	58	291	7
	(5)	(71)	(+4)		889	14

Mean daily area for 30 days = 1,733
 Mean 10 g's for 30 days = 162.4